

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A hydraulic steering system for vehicles comprising:

a hydraulic steering unit including a steering element for receiving steering input from an operator;
a closed-circuit pump in communication with the steering unit wherein the steering unit actuates the closed-circuit pump;
and

at least one steering cylinder in communication with the closed-circuit pump wherein the closed-circuit pump actuates the steering cylinder to control the steering of the vehicle;
and

said steering unit having at least one servo pump in communication with the closed-circuit pump to actuate the closed circuit pump.

2. (original) The hydraulic steering system of claim 1 wherein the closed-circuit pump is a proportional bi-directional pump.

3. (cancelled)

4. (original) The hydraulic steering system of claim 1 wherein the steering cylinder includes at least one counterbalance valve along the inlet to the steering cylinder to prevent actuation of the steering cylinder when there is no steering input from the operator.

5. (original) The hydraulic steering system of claim 1 wherein the steering element comprises a steering wheel.

6. (previously withdrawn) A hydraulic steering system for vehicles comprising:
an electronic displacement control unit including a steering element for receiving steering input from an operator;
a closed-circuit pump in communication with the electronic displacement control unit wherein the electronic displacement control unit actuates the closed-circuit pump;
and
at least one steering cylinder in communication with the closed-circuit pump wherein the closed-circuit pump actuates the steering cylinder to control the steering of the vehicle.

7. (previously withdrawn) The hydraulic steering system of claim 6 wherein the closed-circuit pump is a proportional bi-directional pump.

8. (previously withdrawn) The hydraulic steering system of claim 6 wherein the steering cylinder includes at least one counterbalance valve along the inlet to the steering cylinder to prevent actuation of the steering cylinder when there is no steering input from the operator.

9. (previously withdrawn) The hydraulic steering system of claim 6 wherein the steering element comprises a steering wheel with electronic encoding devices that relays an electronic signal to the electronic displacement control unit.

10. (previously withdrawn) The hydraulic steering system of claim 6 wherein the steering element comprises a joystick that relays an electronic signal to the electronic displacement control unit.

11. (new) A hydraulic steering system for vehicles comprising:
a hydraulic steering unit including a steering element for
receiving steering input from an operator;
a closed-circuit pump in communication with the steering unit
wherein the steering unit actuates the closed-circuit pump;
at least one steering cylinder in communication with the closed-
circuit pump wherein the closed-circuit pump actuates the
steering cylinder to control the steering of the vehicle;
and
said steering cylinder having at least one counterbalance valve
along the inlet to the steering cylinder to prevent
actuation of the steering cylinder when there is no
steering input from the operator.